

A LIST OF THE TYPE-SPECIMENS OF
PLECOPTERA AND MEGALOPTERA
IN THE BRITISH MUSEUM
(NATURAL HISTORY)



BY
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By D. E. KIMMINS

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SYNOPSIS

In these lists, 171 taxa of Plecoptera and 74 taxa of Megaloptera are considered. Lectotypes are designated for 43 taxa of Plecoptera and 21 taxa of Megaloptera. The types of 8 other taxa of Plecoptera are either unlabelled and not recognizable from the descriptions, or have not been traced, being possibly in other collections.

INTRODUCTION

THIS list follows the general pattern of my previous Odonata Type Lists, but as the Plecoptera and Megaloptera are relatively small orders, I have not considered it necessary to present separate lists for the various families, all the taxa being dealt with alphabetically under the respective orders, and a combined list of references is given.

NOTES

1. The recognition of the individual types of the Plecoptera and Megaloptera described by Stephens presents some difficulties, since at some time since its presentation to the BMNH, the Stephens Collection was re-arranged by what McLachlan has described as a 'non-expert'. The specimens in most cases bore only a Stephens Collection label and were arranged over a small handwritten determination label. In few cases was there any indication of locality. During this re-arrangement, the various synonyms were placed together and the determination label placed on one of the series, with the result that it is almost impossible to differentiate the various type-series. In labelling types, the example bearing a determination label has been accepted as type, unless there is definite evidence to the contrary.

2. In the case of some of the Leptoperlid types from Australia, reference is made to the wings being mounted in de Faure's medium, a water-soluble mountant. This was recommended to me by the late Dr F. W. Edwards in the early 1940's. It works quite well for wings and other very thin objects, particularly if the mounts are ringed with varnish. I found it however quite unsuitable for use with thicker mounts, such as whole Leptoperlids. Shrinkage of the medium in drying caused

air to be drawn in and these preparations had eventually to be dissolved in warm water, dehydrated and cleared and remounted in canada balsam.

3. The Walker Type label is circular, bearing the word 'Type' and ringed with a green line. McLachlan's type label is small, rectangular, pink, red or purplish, bearing the word 'Type'.

PLECOPTERA

abdominalis Stephens (*Leuctra*), 1836 : 145; Mosely, 1932 : 33, pl. 2, fig. 7a. LECTOTYPE ♀. Stephens Coll. / abdominalis / klapáleki ♀ (not albida), det. K. G. Blair / *Leuctra fusciventris* Steph. (klapáleki Kny) M. E. Mosely det. / *Leuctra abdominalis* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

The ♀ type is in fragments. Mosely (1932 : 33) restricted the type-series to the ♀ with abdomen mounted in canada balsam, and figured on pl. 2, fig. 7a. Currently placed as a synonym of *L. fusciventris* Stephens.

abnormis Newman (*Perla*), 1838 : 177-178. Holotype ♀. Abnormis Newman, Ent. Mag. V.177, Trenton Falls, N. A. (*R. Foster*) / *Perla abnormis* Newm., ♀ Holotype.

Newman's label is much blackened and has been transcribed. Currently placed in *Acroneuria*.

acicularis Despax (*Chloroperla*), 1934 : 367-370, pls 1, fig. 4; 4, fig. 15; 11, fig. 30; text-figs 22-24. Holotype ♂ (in 2% formaldehyde solution and on two microscope preparations). [France, Cantal], Le Lioran, 9-19.vii.[19]24 (*M. E. Mosely*), *Chl. acicularis* Despax, ♂ Type. Currently placed in *Isoperla*.

aethiops Walker (*Perla*), 1852 : 154. Holotype ♀. Walker type-label / Mexico / 45. PERLA ÆTHIOPS [printed label from Walker's catalogue] / *Anacroneuria* [C. G. Froelich, 1968].

Currently placed in *Anacroneuria*.

affinis Stephens (*Nemoura*), 1836 : 141. LECTOTYPE [sex unknown]. Stephens Coll. / *Nemoura affinis* Steph., Lectotype, D. E. Kimmins det. 1969.

The lectotype lacks its abdomen, sex unknown. Currently placed as a synonym of *Nemoura cinerea* (Retzius).

albidipennis Walker (*Nemoura*), 1852 : 191; Ricker, 1938 : 133, fig. 8. Holotype ♀. Walker type-label / R [on green paper] / Nova Scotia (*Redman*) / *Nemoura albidipennis* Walk., ♀ Holotype, D. E. Kimmins det. 1959.

Hind wings mounted dry between celluloid, metathorax and abdomen cleared and mounted in canada balsam. Currently placed in *Nemoura (Ostrocerca)*.

albomacula Kimmins (*Udamocercia*), 1951 : 90-91, figs 39, 40a-c. Holotype ♂. Tas[mania], Cradle Mt, 16.i.[19]17 (*R. J. Tillyard*). / *Udamocercia albomacula* Kimm., ♂ Type.

One pair of wings mounted dry, genitalia in canada balsam, attached to specimen pin. Currently placed in *Kimminsoperla*.

anglica Aubert (ssp. *Capnia vidua*), 1950 : 315-316, fig. 35. Holotype ♂ (in 2% formaldehyde solution). [England], Cheshire, Woodhead, 1.iv.1933 (*H. Britten*) / *Capnia anglica* Aub., ♂ Holotype, ♀ allotype, designated by D. E. Kimmins (i.l.), 1950.

anglica Kimmins (*Rhabdiopteryx*), 1943 : 42-44, 8 text-figs. Holotype ♂. [England], Yorks[hire], Pickering Beck, 28.iii.1942 (*H. Whitehead*) / *Rhabdiopteryx anglica* Kim., ♂ Holotype.

bifasciata Kimmins (*Udamocercia*), 1951 : 91-92, figs 40d-f. Holotype ♂. Tasmania (*J. W. Evans*) / *Udamocercia bifasciata* Kim., ♂ Type.

Mounted as two preparations, in canada balsam. Currently placed in the genus *Kimminsoperla*.

- biloba** Newman (*Pteronarcys*), 1898 : 176. Holotype ♀. *Pteronarcys* Newman. *Biloba* Newman, Ent. Mag. V. 176, Trenton Falls, N.A. (*R. Foster*).
The label is blackened but still legible. Currently placed as *Pteronarcys* (*Allonarcys*).
- bituberculata** Kimmins (*Nemoura*), 1950a : 208–209, fig. 17. Holotype ♀. Assam, Delai valley, Taphlogam, 4000 ft, 11.xi.1936 (*M. Steele*) / *Nemoura bituberculata* Kimm. ♂ H.T. Type.
Mounted as two preparations, in canada balsam.
- brevipennis** Kimmins (*Dinotoperla*), 1951 : 67–68, figs 18a–e. Holotype ♂. [Australia], New South Wales, Bolaro, 22.xii.1935 (*R. J. Tillyard*) / *Dinotoperla brevipennis* Kim., ♂ TYPE.
Mounted as two preparations, wings in de Faure's medium, remainder in canada balsam.
- bullata** Kimmins (*Spaniocerca*), 1951 : 88–90, figs 38a–e. Holotype ♂. Tasmania (*J. W. Evans*) / *Spaniocerca bullata* Kimmins, ♂ TYPE.
Mounted as two preparations in canada balsam.
- californicus** Newport (*Pteronarcys*), 1848 : 388; 1851 : 450. Holotype ♂. California (*Hartweg*) / *Pteronarcys californica* Newport, Proc. Linn. Soc. 1848 / *Pteronarcys californicus* Newp., ♂ Holotype, D. E. Kimmins det. 1969.
The first description of this species is in *Proc. Linn. Soc. Lond.* for 20.vi.1848, and it should be noted that the actual date of publication of p. 388 was 1848, but p. 389 was not published until 1849. The paper subsequently appeared in the *Trans. Linn. Soc. Lond.* **20** (3) : 444–452, in 1851.
- [**cambrica** Stephens (*Nemoura*), 1836 : 143. I have been unable to recognize the type-specimen of *cambrica* in the Stephens Collection, the three possible examples (females) being smaller than the dimensions given by Stephens.]
- [**carpenteri** Tillyard (*Dinotoperla*), 1921b : 270–274, 4 text-figs.
The type of this species did not come to the BMNH with the Tillyard Bequest. It may still be in the Cawthron Institute, Nelson, N.Z.]
- chrysostoma** Klapálek (*Brahmana*), 1916 : 63. LECTOTYPE ♀. Mungphu (*Atkinson*) / *chrysostoma*, Klapálek / *Brahmana chrysostoma* Klap., ♀ Lectotype, D. E. Kimmins det. 1969.
- citronella** Newport (*Perla*), 1848 : 388; Walker, 1851 : 169–170 (as *citrinella*); Ricker, 1948 : 144–145, figs 28–30 (♀ lectotype designated). Lectotype ♀. [Canada], Hudson's Bay, [Albany River, St. Martin's Falls] / 269 or 668, *Perla citronella* / *Perla citronella* Newp., ♂ Lectotype, design. W. E. Ricker, 1938.
Currently placed in *Isoperla*. For note on date of publication, see *californicus* (*Pteronarcys*), p. 00.
- clio** Newman (*Isogenus*), 1839 : 415. LECTOTYPE ♂. Georgia / *Perla Clio* / *Isogenus clio* Newm., ♂ Lectotype, D. E. Kimmins det. 1969.
The lectotype has the abdomen cleared and mounted in canada balsam. There is one ♂ paralectotype.
- clymene** Newman (*Chloroperla*), 1839 : 87. Holotype ♀. Georgia / *Clymene* Newm. / *clymene*, Klapálek.
Currently placed in *Neoperla*.
- compacta** McLachlan (*Dictyopteryx*), 1872 : 53–54, pl. 1, figs 6, 7–7b. LECTOTYPE ♂. Type [McL. label] / Sibir. Or. (*Maack*) / *compacta* McL. / *Dictyopteryx compacta* McL., ♂ Lectotype, D. E. Kimmins det. 1969.
The BMNH also possesses the ♀ paralectotype of this species. Currently placed in the genus *Arcynopteryx*.
- completa** Walker (*Nemoura*), 1881 : 191–192; Ricker, 1938 : 133. Holotype ♂. Walker type-label / R [on green paper] / N[ova] Scotia (*Redman*) / 52. NEMOURA COMPLETA [label cut from Walker's catalogue] / *Nemoura*. W. R[icker].

The abdomen of the type has been cleared and mounted in canada balsam. Currently placed in *Nemoura (Prostoia)*, of which it is the type-species.

concolor Banks (*Peltoperla*), 1931a : 411-412. LECTOTYPE ♂. B[ritish] N[orth] Borneo, Mt Kinabalu, Kamborangah, 7000 ft, 27.iii.1929 (*H. M. Pendlebury*) [*ex* F.M.S. Museum] / *Peltoperla concolor* Bks, *type* / *Peltoperla concolor* Bks, ♂ Lectotype, D. E. Kimmins det. 1969.

cordata Kimmins (*Capnia*), 1947 : 733-734, figs 9, A-D. Holotype ♂. Tibet, Gyantse, 13000 ft, 28.vi.1928 (*F. M. Bailey*) / *Capnia cordata* Kimm., ♂ Type, 1946, D. E. Kimmins det.

Type pinned (in poor condition), abdomen cleared and mounted in canada balsam.

cruciata Stephens (*Nemoura*), 1836 : 141. LECTOTYPE ♀. Stephens Coll. / *cruciata* / *Nemoura cruciata* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Nemoura cinerea* (Retzius).

corsicana Morton (*Nemura (Protonemura)*), 1930 : 80-81, pl. 2, figs 3-5. LECTOTYPE ♂. Corsica, Corte, 21.v.-8.vi.1928 (*M. E. Mosely*) / *Nemoura corsicana* Morton, ♂ Lectotype, D. E. Kimmins det. 1969.

Morton did not specify a type nor its location, but Mosely had labelled the preparations, from which Morton's genitalia figures were drawn, as Type. To validate his action, I have designated these preparations as Lectotype. Currently placed in the genus *Protonemura*.

cydippe Newman (*Chloroperla*), 1839 : 88. Lectotype ♀ (Ricker, 1938 : 148, fig. 38). Georgia, 18a / 88. PERLA CYDIPPE (label cut from Walker's catalogue) / *Chloroperla cydippe* Newman, ♀ Lectotype, W. E. Ricker, 1938.

One pair of wings mounted dry, abdomen in canada balsam. Currently placed in *Hastaperla*.

[**cymodoce** Newman (*Perla*), 1839 : 37. No types of this species found in BMNH.]

cyrene Newman (*Chloroperla*), 1845 : 853; Kimmins, 1938 : 564-566, figs 3-4. Holotype ♂. Saunders [Collection] / *Chloroperla Cyrene*, New Zealand.

One pair of wings mounted dry, abdomen in canada balsam. Currently placed in *Austroperla*.

decisa Walker (*Perla (Chloroperla)*), 1852 : 170. Holotype ♂. Walker type-label / Hudson's Bay, [Albany River, St Martin's Falls] / *Perla (Chloroperla) decisa* Walker, ♂ Holotype, D. E. Kimmins det. 1969.

The holotype has one pair of wings mounted dry between celluloid and the abdomen cleared and mounted in canada balsam. Currently placed in *Isogenus (Cultus)*.

decolorata Walker (*Perla (Chloroperla)*), 1852 : 170; Ricker, 1938 : 145-146, fig. 31. LECTOTYPE ♀. Walker type-label / N[orth] Amer[ica], Gt Bear L[ake] / 98. PERLA DECOLORATA [label cut from Walker catalogue] / *Perla decolorata* Walker, ♀ Lectotype, D. E. Kimmins det. 1969.

Abdomen of lectotype cleared and mounted in canada balsam, for study by Ricker. Currently placed in *Isoperla*. There is also one incomplete paralectotype.

despaxi Mosely (*Leuctra*), 1930 : 249-250, figs 27-28. Holotype ♂. France, Pyrénées Orientales, R. Tet, Mont Louis, 22.vi.-2.vii.1923 (*M. E. Mosely*) / *Leuctra despaxi* Mosely ♂ Type.

The holotype is a whole insect, cleared and mounted as a microscope preparation in euparal.

dichroa McLachlan (*Dictyopteryx*), 1872 : 52-53, pl. 1, figs 4-4a, 5-5b. LECTOTYPE ♂. Type [McL. label] / Sibir. orient. (*Maa[c]k*) / *dichroa* McL. / *Dictyopteryx dichroa* McL., ♂ Lectotype, D. E. Kimmins det. 1969.

The type-series in BMNH includes 1 ♂ and 1 ♀ paralectotypes. Currently placed in the genus *Arcynopteryx*.

diminuta Kimmins (*Megaleptoperla*), 1938 : 568–570, figs 6, 7. Holotype ♂. New Zealand, Ohakune, 1922–1923 (*T. R. Harris*) / *Megaleptoperla diminuta* Kimmins, ♂ Type, det. D. E. Kimmins.

The abdomen of the type has been cleared and mounted in canada balsam. Fig. 2 shows the ♀ wings, not those of the ♂; the anterior branch of 3A is erroneously shown as forked.

[**diversipes** Tillyard (*Tasmanoperla*), 1931 : 41.

The type of this species did not come to the BMNH with the Tillyard Bequest collection.]

divisa Klapálek (var. of *Togoperla perpicta* Klapálek), 1921 : 64. LECTOTYPE ♂. N. China [Shanghai, Fortune Coll.] / *infusata* Klapálek / var. *divisa* / *Togoperla perpicta* var. *divisa* Klap., ♂ Lectotype, D. E. Kimmins det. 1969.

This specimen has been labelled 'Type' for many years. The second syntype, from China, is Walker's spec. 'b' of *infusata* and is a ♂, not a ♀ as stated by Klapálek.

dorsalis Kimmins (*Kyphopteryx*), 1947 : 725–727, figs 1B, 3A–G. Holotype ♂. Tibet, Chumbi Valley, 11000 ft, 2.iv.1924 (*R. W. G. Hingston*), Everest Exped. / *Kyphopteryx dorsalis* Kim., ♂ Type.

One pair of wings mounted dry, the other pair and the remainder of the type in canada balsam (3 slides).

drymo Newman (*Isogenus*), 1839 : 86. LECTOTYPE ♀. Georgia / *Perla drymo* [with addition 'OK WR'] / *Isogenus drymo* Newman, ♀ Lectotype, D. E. Kimmins det. 1969.

There is also a ♀ paralectotype. Currently placed in *Perlinella*.

ephyre Newman (*Chloroperla*), 1839 : 87–88. Holotype ♀. Georgia / 17. *Ephyre* Newman, Georgia, 17 / Having only 2 ocelli this species belongs (according to Klapálek) to genus *Atoperla*, C.J.G.

eulegnica Tillyard (ssp. of *Eusthenia spectabilis*), 1921a : 230, pl. 13, fig. 4. Holotype ♀. Tasmania, Tyenna, 29.xii.[19]16 (*C. E. Cole*) / *Eusthenia spectabilis eulegnica* n. subsp., ♀ Holotype, R.J.T.

evansi Kimmins (*Dinotoperla*), 1951 : 70–71, figs 20a–c, 21a. Holotype ♂. S. Australia, Mt Lofty, x.1931 (*J. W. Evans*) / *Dinotoperla evansi* Kim., ♂ TYPE.

Mounted as three preparations, wings dry, remainder in canada balsam.

exigua Kimmins (*Leptoperla*), 1951 : 53–54, figs 6a–d. Holotype ♂. W[est] Australia, Kelmscott, 22.xi.[19]32 (*R. J. Tillyard*) / *Leptoperla exigua* Kim., ♂ TYPE.

Mounted as two preparations, wings in de Faure's medium, remainder in canada balsam.

exilis McLachlan (*Perla*), 1872 : 54–55, pl. 1, figs 8, 8a. Holotype ♀. Type [McL. label] / Sibir. orient. (*Maa[c]k*) / *exilis* McL. / *Perla exilis* McL., ♂ Holotype, D. E. Kimmins det. 1969.

Illies (1966, *Tierreich*, 32 : 501) treats this as a *nomen oblitum*.

extensa Tillyard (ssp. *Eusthenia purpurescens*), 1921a : 230. Holotype ♀. Tasmania, Russell, 26.xii.1916 (*C. E. Cole*) / *Eusthenia purpurescens extensa* n. subsp., ♀ Holotype, R.J.T.

falcula Kimmins (*Protonemura*), 1950a : 196–198, figs 1–3. Holotype ♂. Assam, Mishmi Hills, Chhaglon, 5350 ft, 26.ii.1935 (*M. Steele*) / *Protonemura falcata* Kim., ♂ TYPE.

Mounted as two preparations in canada balsam.

fascipennis Banks (*Javanita*), 1931 : 378. LECTOTYPE ♂. Peninsular Siam, Nakon Sri Tamarat, Khao Ram, 750 ft, 24.ii.1922 (*H. M. Pendlebury*) / Ex F.M.S. Museums / *Javanita fascipennis* Bks type / *Javanita fascipennis* Bks, ♂ Lectotype, D. E. Kimmins det. 1969.

Currently placed as *Neoperla*.

fasciata Tillyard (*Dinotoperla*), 1924 : 193. Holotype ♀. Q[ueensland], National Park, 1500–2000 ft, 20.ii.[19]21 [*A. J. Turner*] / *Dinotoperla fasciata* Till., Holotype ♀, R.J.T.

One pair of wings mounted dry, in celluloid.

ferruginea Walker (*Nemoura (Leuctra)*), 1851 : 183; Ricker, 1938 : 134, fig. (Lectotype ♀ designated). Lectotype ♀. Walker type-label / R on green label [*Redman*] / Nova Scotia

(*Redman*) / 18. *NEMOURA FERRUGINEA* [label cut from Walker catalogue] / *Nemoura ferruginea* Walker, ♀ Lectotype, design. W. E. Ricker, 1938.

Currently placed in the genus *Leuctra*. Ricker's designation of lectotype appears a little vague, but as he states that the lectotype was used as the basis of the figure, and only one example was cleared for drawing, that specimen only can be the lectotype. There are two paralectotypes.

filigera Kimmins (*Amphinemura*), 1947 : 730-731, figs 6A-C. Holotype ♂. [India], Bengal, Darjeeling distr., xi.1945 (*D. E. Kimmins*) / *Amphinemura filigera* Kim., ♂ Type.

Type with wings mounted dry, remainder in canada balsam.

flavescens Kimmins (*Nesoperla*), 1938 : 570-571, figs 8A-C. Holotype ♀. New Zealand, [S. Island], L. Wakatipu, ii.1911 (*G. V. Hudson*) / *Nesoperla flavescens* Kimm., ♀ Type, det. D. E. Kimmins.

One pair of wings mounted dry, apex of abdomen in canada balsam.

flavomaculata Mosely (*Leuctra*), 1935 : 560-561, figs 4-5. Holotype ♂. France, Puy-de-Dôme, Le Mont-Dore, 24.vi-6.viii.1934 (*M. E. Mosely*) / *Leuctra flavomaculata* Mosely, ♂ Type.

The ♂ type was taken coupled, and the two specimens have been cleared and mounted as a preparation in euparal. Mosely specified the ♂ as Type, the ♀ as paratype.

flavotincta McLachlan (*Perla*), 1872 : 54, pl. 1, figs 9-9a. Holotype ♀. Type [McL. label] / Sibir. Or. (*Maack*) / *flavotincta* McL. / *Perla flavotincta* McL., ♂ Holotype, D. E. Kimmins det. 1969.

Currently placed in the genus *Paragnetina*.

fontana Kimmins (*Dinotoperla*), 1951 : 64-66, figs 16a-e. Holotype ♂. Australia / F[ederal] C[apital] T[erritory], Lee's Springs, xi.1932 (*R. J. Tillyard*) / *Dinotoperla fontana* Kim., ♂ TYPE.

Mounted as three preparations, wings in de Faure's medium, remainder in canada balsam.

foveolata Klapálek (*Neoperla*), 1921 : 321. LECTOTYPE ♂. Hong Kong / *foveolata* Klapálek / triangle of black paper / *Neoperla foveolata* Klap., ♂ Lectotype, D. E. Kimmins det. 1969.

There are also 1 ♂, 1 ♀ paralectotypes from N. China.

fraterna Banks (*Nogiperla*), 1938 : 223, figs 7, 14. Holotype ♀. F[ederated] M[alay] S[tates], Pahang, Cameron's Highlands, 4800-5500 ft, 8.vi.1935 (*H. M. Pendlebury*) / E. F.M.S. Museums / *Nogiperla fraterna* Banks, Type.

fraterna Morton (*Leuctra*), 1930 : 79, pl. 2, figs 6-7; Mosely, 1932 : 20. LECTOTYPE ♂. Corsica, Corte, 21.v.-8.vi.1928 (*M. E. Mosely*) / *Leuctra fraterna* Morton [M.E.M. label] / *Leuctra fraterna* Morton, ♂ Lectotype, D. E. Kimmins det. 1969.

Mosely (1932) stated that the type was a preparation in his collection and he placed a BM type-label on it. This has now been replaced by my Lectotype label.

frontalis Newman (*Isogenus*), 1838 : 178. LECTOTYPE ♀ [incomplete]. *Isogenus* Newman. *Frontalis* Newman, Ent. Mag. V, 178, Trenton Falls, N. A. (*R. Foster*) / *Isogenus frontalis* Newman, ♀ Lectotype, D. E. Kimmins det. 1969.

Currently placed as *Isogenus (Isogenoides)*. There is one ♀ paralectotype, labelled R. Foster, New York.

fuliginosa Stephens (*Nemoura*), 1836 : 141. LECTOTYPE ♀. Stephens Coll. / *fuliginosa* / *Nemoura fuliginosa* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Nemoura cinerea* (Retzius).

fumosa Stephens (*Nemoura*), 1836 : 143. LECTOTYPE [?sex]. Stephens Coll. / *fumosus* / *Nemoura fumosa* Steph., Lectotype, D. E. Kimmins det. 1969.

Morton (1894 : 571) states that this is *Nemoura cinerea* Olivier [= *Amphinemura sulcicollis* (Stephens)]. The type now lacks its abdomen.

fusca Kimmins (*Dinotoperla*), 1951 : 71-72, figs 21 b, c. Holotype ♀. Tasmania (*J. W. Evans*) / *Dinotoperla fusca* Kim., ♀ TYPE.

Mounted as two preparations in canada balsam.

[**fuscipennis** Stephens (*Chloroperla*), 1836 : 138. Type unlabelled and not recognizable from Stephens' description.]

fusciventris Stephens (*Leuctra*), 1836 : 145; Mosely, 1932 : 32-33, text-figs 50-51, pl. 2, fig. 7. Lectotype ♂. Stephens Coll. / *fusciventris* / *Leuctra fusciventris* Steph., ♂ Lectotype, D. E. Kimmins det. 1969.

Mosely (1932 : 33) restricted the type-series to the ♂, of which the abdomen had been cleared, mounted in canada balsam and figured on pl. 2, and in effect designated this specimen as a lectotype.

geniculata Stephens (*Leuctra*), 1836 : 145. LECTOTYPE ♀. Stephens Coll. / *geniculata* / *Leuctra geniculata* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

One other ♀ example remains in the Stephens Coll., and has been labelled as a paralectotype.

glacialis Newport (*Nemoura (Brachyptera)*), 1849 : 389; 1851 : 451; Walker, 1851 : 192; Ricker, 1938 : 131, 132, figs 1-7 (lectotype designation). Lectotype ♂. Hudson's Bay, [Albany River, St Martins Falls] / *Nemoura glacialis* Newport Holotype (= *Taeniopteryx*, s. l.) W. E. Ricker.

The lectotype has one pair of wings mounted dry and the abdomen in canada balsam. For notes on date of publication, see *Pteronarcys californicus* Newport.

hamulata Morton (*Isopteryx*), 1930 : 78-79, pl. 2, figs 8-9. LECTOTYPE ♂. Corsica, Corte, 21.v-8.vi.1928 (*M. E. Mosely*) / *Isopteryx hamulata* Morton, ♂ Type [M.E.M. label] / *Isopteryx hamulata* Morton, ♂ Lectotype, D. E. Kimmins det. 1969.

Type mounted as two preparations, one in canada balsam, one pair of wings mounted dry. I consider this to be a synonym of *Chloroperla apicalis* (Newman). Currently placed in the genus *Chloroperla*.

hingstoni Kimmins (*Capnia*), 1947 : 732-733, figs 8A-F. Holotype ♂. Sikkim, Gnatang, 12000 ft, 31.iii.1924 (*R. W. G. Hingston*) Everest Exped. *Capnia hingstoni* Kim., ♂ Type.

Type on microscope slides, wings dry, remainder in canada balsam.

hudsoni Kimmins (*Spaniocercoides*), 1938 : 577-579, figs 13-15. Holotype ♂. New Zealand (*G. V. Hudson*) / Korokoro, 12.x.1923 / *Spaniocercoides hudsoni* Kimmins, ♂ Type, det. D. E. Kimmins.

indica Kimmins (*Protonemura* ?) 1947 : 727-728, figs 4A-C. Holotype ♂. [India], Bengal, Darjeeling district, xi.1945 (*D. E. Kimmins*).

Type preserved in 2% formaldehyde solution.

insularis Morton (*Chloroperla*), 1930 : 77-78, pl. 2, figs 1-2. LECTOTYPE ♂. Corsica, Corte, 21.v-8.vi.1928 (*M. E. Mosely*) / *Chloroperla insularis* Morton ♂ Type / *Chloroperla insularis* Morton, ♂ Lectotype, D. E. Kimmins det. 1969 (see note to *Nemura corsicana*, p. 340).

Lectotype mounted as preparations in canada balsam, one pair of wings mounted dry. Currently placed in the genus *Isopteryx*.

internata Walker (*Perla*), 1852 : 152-153; Ricker, 1938 : 139, figs 14, 15. Holotype ♀. Walker type label / North America? / Ent[omological] Club, [18]44-12 / 41. PERLA INTERNATA [label cut from Walker's Catalogue]. /

The type is now much faded. Currently placed in *Acroneturia*.

intermixta Walker (*Perla*), 1852 : 153. Holotype ♀. Walker type label / Venezuela / 42. PERLA INTERMIXTA [label cut from Walker's Catalogue] / *Anacroneturia intermixta* (W.) ♀ [label by C. G. Froehlich, vii.1968].

Illies, 1968 : 503 places this species as a *nomen oblitum*.

irrorata Tillyard (*Trinotoperla*), 1924 : 194, fig. 1. Holotype ♀. N[ew] S[outh] W[ales], [Mt] Kosciusko, [5000–5500 ft], 24.xi.1921 (*R. J. Tillyard*) / *Trinotoperla irrorata* Till., Holotype ♀, R.J.T.

Holotype body much damaged by insect pests when received in Tillyard Bequest, one pair of wings mounted dry between celluloid, ♂ allotype also with body much damaged by pests.

kempnyi Mosely (*Leuctra*), 1932 : 14, pl. 3, figs 14, 14a; text-figs 13–14. Holotype ♂. France, B[asses] Pyrénées, Eaux-Bonnes, 4–21.vii.1924 (*M. E. Mosely*) / *Leuctra kempnyi* Mosely ♂ ♀. Taken coupled. Type ♂.

Of the pair, mounted as microscope preparation in euparal, Mosely specifies the ♂ as type, the ♀ as paratype.

[**lacrimosa** Klapálek (*Paragnetina*), 1921 : 62. Type not traced in BMNH.]

lacustris Tillyard (*Eusthenia*), 1921a : 231–232, pl. 12, fig. 5. Holotype ♀. Tas[mania], Cradle Mt., [Lake Lilla], 12.i.[19]17 (*R. J. Tillyard*) / *Eusthenia lacustris* n. sp., ♀ Holotype, R.J.T.

Allotype ♂ and 1 incomplete ♀ paratype also in BMNH.

larvata Klapálek (*Tetropina*), 1909 : 223 (in key). LECTOTYPE ♂. N.W. Borneo, Baram / larvata, Klapálek / *Tetropina larvata* Klap., ♂ Lectotype, D. E. Kimmins det. 1969.

I have selected the BMNH example as lectotype, as it is the example which is figured.

lateralis Stephens (*Chloroperla*), 1836 : 138. LECTOTYPE ♂. Stephens Coll. / *Chloroperla lateralis* Steph., ♂ Lectotype, D. E. Kimmins det. 1969.

Abdomen mounted in canada balsam. Currently placed as a synonym of *Isoperla grammatica* (Scopoli).

lepida Klapálek (*Anacroneuria*), 1922 : 91. Holotype (?sex). Cent[ral] Brazil, Chapada, 2600 ft, xi.1902 (*A. Robert*) / *lepida*, Klapálek / *Anacroneuria lepida* Klap., Holotype.

Most of abdomen missing.

lugubris McLachlan (*Perla*), 1875 : 172–173. Holotype ♂, Japan, [Kobé (*Lewis*)] / *Perla lugubris*, McL. (Type).

Currently placed in the genus *Kiotina*.

lunata Kimmins (*Rhabdiopteryx*), 1947 : 722–724, figs 1A, 2A–F. Holotype ♂. Tibet, Rongbuk, 15500 ft, 22.v.1924 (*R. W. G. Hingston*) / Everest Exped. / *Rhabdiopteryx lunata* Kim., ♂ Type, det. D. E. Kimmins, 1946.

The figures were made from a paratype taken at the same time as the holotype.

lunulata Tillyard (*Eusthenia*), 1921a : 230–231, pl. 12, fig. 3. Holotype ♀. Cradle Mountain, [3000 ft], 21.i.[19]17 (*R. J. Tillyard*) / *Eusthenia lunulata* n. sp. ♀ Holotype, R.J.T.

luteicollis Walker (*Perla*), 1852 : 154–155. Holotype ♀. Walker type-label / Venezuela / *Perla luteicollis* [pencil written] / 46. PERLA LUTEICOLLIS [label cut from Walker's Catalogue].

One pair of wings has been removed and mounted between celluloid, and the abdomen has been cleared and placed in a small vial of glycerine. The wings are not entirely dark brown as indicated by Walker but have paler areas. Currently placed in *Macrogynoplax*.

[**luteicornis** Stephens (*Nemoura*), 1836 : 142. I have been unable to recognize the type of this species. The specimen bearing the label 'luteicornis' is the example with the dissimilar antennae; as it is aberrant and does not appear to be an artefact, I am not considering it as a 'type'. It is *Nemoura cinerea* (Retzius).]

luteipes Kimmins (*Amphinemura*), 1947 : 728–730, figs 5A–D. Holotype ♂. [India], Bengal, Darjeeling distr., xi.1945 (*D. E. Kimmins*) / *Amphinemura luteipes* Kim., ♂ Type.

Type with wings mounted dry, remainder in canada balsam.

[**lycorias** Newman (*Perla*), 1839 : 35. Newman quotes 'In the cabinets of the British Museum and the Rev. F. W. Hope.' The BMNH example has not been traced, unless it is the example described by Newport as *Acroneuria sonans*.]

magellanica Klapálek (*Kempnyia*), 1916 : 69. Holotype ♂. Straits of Magellan, Trinidad Channel, 24.ii.[18]79, flying over a mountain stream, H.M.S. 'Alert' / *magellanica* Klapálek. Currently placed as a synonym of *Pictetoperla gayi* (Pictet).

manevali Kimmins (*Isopteryx*), 1935 : 645-650, figs 1-8. Holotype ♂. France, Mt. Mézenc, 5.vi.[19]33 (*H. Maneval*) / Beaten out of grass, on banks of stream, at foot of mountain, c. 1600 m / *Chloroperla manevali* (Kim.), ♂ TYPE.

Type mounted as two microscope preparations. Currently placed as a synonym of *Chloroperla* (*Siphonoperla*) *torrentium* (Pictet).

mclachlani Kimmins (*Protonemura*?), 1950a : 200-203, figs 5-8. Holotype ♂. Assam, Khasi Hills, McLachlan Collection / *Protonemura* ? *mclachlani* Kim., ♂ Holotype.

Mounted as two preparations, wings dry, remainder in canada balsam. Placed provisionally in *Protonemura*, in spite of the apparent absence of prosternal gill-vestiges.

media Stephens (*Chloroperla*), 1836 : 138-139. LECTOTYPE ♀. Stephens Coll. / *media* / *Chloroperla media* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

Another example, with a small label 'D' is possibly one of the series from Darenth Wood in June. Currently placed as a synonym of *Isopteryx grammatica* (Scopoli).

media Walker (*Perla* (*Isogenus*)), 1852 : 145; Ricker, 1938 : 141. Holotype [? sex]. Walker type-label / Hudson's Bay, [Albany River, St Martins Falls] / 266 or 665, *Perla media* [Barnston Mss] / The abdomen does not belong to this specimen, P. W. Claassen / *Perla media* Walker, D. E. Kimmins det. 1969.

The abdomen has been glued on, and according to Claassen, does not belong to this specimen. Currently placed in *Paragnetina*.

minima Newport (*Perla*), 1848 : 388; 1851 : 430; Walker, 1851 : 183; Ricker, 1938 : 136. LECTOTYPE ♂. Hudson's Bay [Albany River, St Martins Falls] / 268 or 667, *Perla minima* / *Allocapnia* W. R[icker]. /

Type mounted on two microscope slides. Currently placed in *Allocapnia*. For notes on date of original publication, see *Pteronarcys californicus* Newport. (p. 339).

minor Klapálek (*Arcynopteryx*), 1912 : 22. Lectotype ♂. (Ricker, 1938 : 144, figs 25-26). Arctic America / Klapálek, *minor* / *Perlodes* (*Arcynopteryx*) *minor* Klap. ♂ 'Type' selected by Ricker, 1935-36 [label, D.E.K.].

Klapálek lists a pair in the BMNH collection, and I consider Ricker's statement (1938 : 144) 'Figured here are the ♂ genitalia, from the type' as equivalent to a selection of the ♂ as Lectotype. The ♂ genitalia were cleared by Kimmins and mounted in canada balsam for the purpose of Ricker's study. Currently placed as a synonym of *Arcynopteryx compacta* McL. The female has been labelled paralectotype.

minor Kimmins (*Spaniocerca*), 1938 : 575-576, figs 11, 12A-C. Holotype ♂. New Zealand, Arthur's Pass, 3000 ft, 16.i.1935 (*G. V. Hudson*) / *Spaniocerca minor* Kimmins, ♂ Type, det. D. E. Kimmins.

The figures in the original description are from a paratype.

minor Kimmins (*Trinotoperla*), 1951 : 78-79, figs 29a-e. Holotype ♂. [Australia], N[ew] S[outh] W[ales], Bolaro, xii.1935 (*R. J. Tillyard*) / *Trinotoperla minor* Kim., ♂ TYPE.

Mounted as three preparations, wings dry, body in de Faure's medium.

minuta Klapálek (*Anacroneuria*), 1922 : 89. Lectotype ♂ (Froehlich des. (i.l.) 1968). Brazil, Santarem / *minuta* Klapálek / *Anacroneuria minuta* Klap., ♂ Lectotype, des. Froehlich 1968.

Wings mounted dry, abdomen cleared and in glycerine. 1 ♂ paralectotype, Brazil, Tapayos.

mishmica Kimmins (*Protonemura*), 1950a : 203-204, figs 9-11. Holotype ♂. Assam, Mishmi Hills, Chhaglon, 5350 ft, 26.ii.1935 (*M. Steele*) / *Protonemura mishmica* Kim., ♂ TYPE.

Mounted as two microscope preparations, in canada balsam.

montana Kimmins (*Capnia*), 1944 : 735-736, fig. 11A. Holotype ♀. Sikkim, Tangu, 11500 ft, 26.iv.1924 (*R. W. G. Hingston*) Everest Exped.

Type in poor condition, cleared and mounted in canada balsam, on two slides.

- montana** Kimmins (*Protonemura*), 1941 : 89-93, figs 13, 14. Holotype ♂. Westmorland, Rydal Beck, 1700 ft, 4.viii.1940 (*Noel Hynes*) / *Protonemura montana* Kim., ♂ Holotype. Holotype mounted on two microscope slides.
- montivaga** Kimmins (*Capnia*), 1947 : 736-737, fig. 11 B. Holotype ♀. Tibet, Lamna La, 15000 ft, 17.vi.1924 (*R. W. G. Hingston*) Everest Exped. / *Capnia montivaga* Kim., ♂ Type. 1946. D. E. Kimmins det.
Type in poor condition, abdomen mounted in canada balsam.
- mosellae** McLachlan (*Perla*), 1895 : 111-112. LECTOTYPE ♀. Type [McL. label] / Alf, 1894, Moselle / *P. selysii* Pict. v. *mosellae* McL. / *Perla selysii* Pict. var. *mosellae* McL. ♂ Holotype, D. E. Kimmins det. 1969.
There are 1 ♂ and 10 ♀ paralectotypes. Currently placed as a synonym of *Marthamea selysi* Pictet
- moselyi** Despax (*Chloroperla*), 1934 : 376-379, pls 5, fig. 16, 10, fig. 29, text-figs 30-32. Holotype ♂ (in 2% formaldehyde solution and on two microscope preparations). [France, Pyrénées-Orientales], Mont-Louis, R. Tet, 22.vi-2.vii.1923 (*M. E. Mosely*), Chl. *Moselyi* Despax ♂ Type.
Currently placed in *Isoperla*.
- moselyi** Despax (*Nemura*), 1934 : 265-267, figs 5-8. Holotype ♂ (in 2% formaldehyde solution). France, B[asses] Pyrénées, Eaux-Bonnes, 4-21.vi.1927 (*M. E. Mosely*), *Nemura moselyi* Despax, Type.
The generic name is now spelt *Nemoura*.
- nebulosa** Stephens [*nec* Latreille] (*Nemoura*), 1836 : 140. LECTOTYPE ♀. Stephens Coll. / *nebulosa* / *Nemoura nebulosa* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.
Currently placed as a synonym of *Nemoura cinerea* (Retzius).
- nigricosa** Kimmins (*Dinotoperla*), 1951 : 72, fig. 20d. Holotype ♀. New South Wales, Mt Kosciusko, 10.xii.1934 (*R. J. Tillyard*) / *Dinotoperla nigricosa* Kim., ♀ TYPE.
Mounted as three preparations, wings dry, remainder in canada balsam.
- nigrifrons** Kimmins (*Leptoperla*), 1951 : 58-59, figs 10a-d. Holotype ♂. Tasmania (*J. W. Evans*) / *Leptoperla nigrifrons* Kim., ♂ TYPE.
Mounted as two preparations, wings dry, remainder in canada balsam.
- nimborella** Mosely (*Protonemoura*), 1930 : 250-252, figs 29-31. Holotype ♂. Switzerland, Klosters, 30.viii.1927 (*M. E. Mosely*) / *Nemoura nimborella* Mosely, ♂ Type.
Mounted as preparation in canada balsam. Of the two abdomens in this preparation, that in dorsal view should be considered the TYPE.
- niponensis** McLachlan (*Perla*), 1875 : 172. LECTOTYPE ♀. Type [McL. label] / Japan (*Pryer*) / *Perla niponensis* McL. / *Perla niponensis* McL., ♀ Lectotype, D. E. Kimmins det. 1969.
Of the two females referred to in the original description (in Wormald's collection), one is in McLachlan's collection and is designated Lectotype.
- nitida** Kimmins (*Neoperla*), 1950 : 184-185, figs 9, 10. Holotype ♂. S. India, Tinnevely Dt., Naraikadu, 2500-3000 ft, 3-8.x.[19]38 / *Neoperla nitida* Kim., ♂ Type.
Mounted as two preparations, wings dry, remainder cleared and in canada balsam.
- nitida** Stephens (*Nemoura*), 1836 : 143. LECTOTYPE ♀. Stephens coll. / *nitida* / *inconspicua* Pict., *picteti* Mort., det. K. G. Blair / *Nemoura nitida* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.
Placed as a synonym of *Nemurella picteti* Klapálek. There are also two paralectotype ♀♀.
- nivata** Kimmins (*Trinotoperla*), 1951 : 78, figs 27b, 28c. Holotype ♀. [Australia], Victoria, Snowy River, 3.i.1933 (*R. J. Tillyard*) / *Trinotoperla nivata* Kim., ♀ TYPE.
Mounted as three preparations, wings dry, body in canada balsam.

- nubecula** Newman (*Isogenus*), 1833 : 415. Holotype ♀. *Isogenus* Newman, *Nubecula* Newman, Ent. Mag. 1. 415, Worcester (*P. Burlingham*).
The label is much blackened and has been transcribed.
- nubila** Kimmins (*Amphinemura*), 1950 : 191–192, fig. 26. Holotype ♀. S. India, Coonoor, 6000 ft, 22–23.iv.1937 (*G. M. Henry*).
Type mounted as two preparations, body in canada balsam, wings dry. There is also a ♀ paratype, pinned.
- olivacea** Walker (*Perla* (*Isogenus*)), 1852 : 144–145; Ricker, 1938 : 143, figs 21–23. Holotype ♂. Walker Type label / Hudson's Bay [Albany River, St. Martin's Falls] / 267 or 666, *Perla olivacea* [Barnston Mss] / *Isogenus olivacea* Walk. Type [DEK writing].
The abdomen was removed and cleared, for study by W. E. Ricker, and has been mounted in canada balsam.
- opposita** Walker (*Perla* (*Chloroperla*)), 1852 : 171; Kimmins, 1951 : 63–64, fig. 15 (lectotype designation.) Lectotype ♂. Walker Type label / V[an] D[iemens] L[and] / *Dinotoperla opposita* Walk., Type, det. D. E. Kimmins, i.1940.
The abdomen is mounted in de Faure's medium, attached to pin, and one pair of wings mounted on a microscope slide. I consider my statement (1951: 'I have selected as type the female from Mr Smith's collection, labelled V. D. L., 51–153' as equivalent to a designation of the lectotype. Currently placed in the genus *Dinotoperla*.
- oxylepis** Despax (ssp. of *Chloroperla grammatica*), 1936 : 357, pl. 3, fig. 12, pl. 7, fig. 23, text-figs 10–12. Holotype ♂ (in 2% formaldehyde solution and on two preparations). [France], Le Lioran, 9–19.vi.[19]24 (*M. E. Mosely*), Chl. gr. *oxylepis* Despax, Type.
Currently placed in the genus *Isoperla*. Despax quotes Gerardemer and Le Lioran in the type-series, but has labelled the Le Lioran example as Type.
- [**pallicornis** Stephens (*Nemoura*), 1836 : 143. Type not recognized. The specimen bearing this label agrees in wing expanse with the description but the antennae, far from being pale, are dark reddish brown. The specimen bears a label 'H' [?Hertford] but I am inclined to the view that the label 'pallicornis' has been wrongly placed upon it, and do not consider it to be a type. It is a ♀ *Nemurella picteti* Klapálek. Morton doubtfully synonymized this species with *cambrica* or *inconspicua* [picteti]. The labelled specimen is certainly the latter.]
- pallida** Stephens (*Chloroperla*), 1836 : 139–140. LECTOTYPE ♀. Stephens coll. / *pallida* / *Chloroperla pallida* Steph., ♀ Lectotype, D. E. Kimmins det.
Currently placed as a synonym of *Chloroperla torrentium* (Pictet).
- pallida** Stephens (*Nemoura*), 1836 : 141. LECTOTYPE ♀. Stephens Coll. / *pallida* / *Nemoura pallida* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.
Currently placed as a synonym of *Nemoura cinerea* (Retzius).
- pallipes** Stephens (*Nemoura*), 1826 : 142. Holotype ♂. Stephens Coll. / *pallipes* / *standfussi* (not *inconspicua* Pict.), det. K. G. Blair. / *Amphinemura standfussi* Ris ♂, D. E. Kimmins det.
This dried example was determined as *A. standfussi* Ris by Blair, and while I had little doubt as to the accuracy of his identification, I have cleared the abdomen and can confirm his identification. Illies (1966, *Tierreich* 82 : 47) treats *Nemoura pallipes* Stephens as a *nomen oblitum*, thus avoiding the suppression of the well-known name *Amphinemura standfussi* Ris.
- pedestris** Kimmins (*Capnia*), 1947 : 731–732, figs 7A–C. Holotype ♂. Tibet, Everest base camp, Rongbuk Glacier, 16500 ft, v.1922 (*T. G. Longstaff*) / *Capnia pedestris* Kim., ♂ Type.
The type has been cleared and mounted in canada balsam. Currently placed in the genus *Allocapnia*.
- perfecta** Walker (*Nemoura*), 1852 : 191; Ricker, 1938 : 133. Holotype ♂ (mounted on three microscope slides). Walker type-label / R [on green label] / Nova Scotia (Redman) / 51. NEMOURA PERFECTA [label cut from Walker catalogue] / *Nemoura* WR. (*punctipennis* Claassen syn) [W. E. Ricker's writing, 1935–36].
Currently placed in *Nemoura* (*Paranemoura*).

perpicta Klapálek (*Togoperla*), 1921 : 63, 64. LECTOTYPE ♂. Hong Kong, Feb.–May (J. J. Walker) / infuscata Klapálek / *Togoperla perpicta* Klap., ♂ Lectotype, D. E. Kimmins det. 1969.

There are 4 ♂, 1 ? paralectotypes in BMNH. The explanation of the absence of correct Klapálek det. labels appears to be due to a change of mind between labelling the specimens and the posthumous publication of the description.

perspicillata Klapálek (*Gibosia*), 1916 : 61. LECTOTYPE ♀. N[orth] China / triangle of black paper / *perspicillata* Klapálek / *Gibosia perspicillata* Klap., ♀ Lectotype, D. E. Kimmins det. 1969.

There are also 2 ♀ paralectotypes labelled Hong Kong.

postica Walker (*Perla (Isogenus)*), 1852 : 144; Ricker, 1938 : 143–144. Holotype ♀. Walker Type label / [Mackenzie River], Arctic Amer[ica] / *Perla (Isogenus) postica* Walk., Holotype ♀, det. D. E. Kimmins, 1969.

The holotype lacks part of its abdomen, but the presence of eggs in the remainder of the abdomen leaves no doubt as to its sex. Currently placed as a synonym of *Diura bicaudata* (L.).

[**praecox** Morton (*Nemoura*), 1894 : 566–567, pl. 13, *Nemoura praecox*, figs 1–2.

The BMNH has two syntypes (♂, ♀) given to McLachlan, labelled Cleghorn, 13.iii / **PRÆCOX** / Morton's type, 1894 [McL. writing] / *Nemoura praecox* Mort., syntype, D. E. Kimmins det. 1969.

The lectotype should be chosen from Morton's collection, Royal Scottish Museum, Edinburgh.]

prasina Newman (*Chloroperla*), 1845 : 853. Holotype ♀. N[ew] Zea[land] / Saunders [collection] / *Chloroperla prasina*, New Zealand.

One pair of wings mounted dry, abdomen in canada balsam. Currently placed in *Sienoperla*.

proteus Newman (*Pteronarcys*), 1838 : 177. Lectotype ♂ (Smith, 1917 : 453). E. Double-day, Trenton Falls, New York, *Pteronarcys Proteus* Newm. / *Pteronarcys proteus* Newm. ♂.

This ♂ had at some time acquired an incorrect register number applying to a Trichopteron; this has been corrected. The ♀ type of *proteus* has been shown by Smith (1917) to be incorrectly associated with the ♂ and is in fact the ♀ of *Pt. comstocki* Smith.

pseudocingulata Mendl (*Leuctra*), 1968 : 311–314, figs 5–7. Holotype ♂. France, Vosges, Retournemer, 7–31.vii.1930 (M. E. Mosely) / *Leuctra carinthiaca* Kempny, det. M. E. Mosely / *Leuctra pseudocingulata* Mendl, ♂ Holotype, D. E. Kimmins det. 1968.

Holotype mounted as a preparation in canada balsam. The holotype and paratypes were labelled by Kimmins at Herr Mendl's request.

purpurescens Tillyard (*Eusthenia*), 1921 : 230, pl. 13, fig. 6. Holotype ♀. [Tasmania], Hobart, 6.xii.[19]13 (G. H. Hardy) / *Eusthenia purpurescens* sp. n. ♀ Holotype, R.J.T.

♂ Allotype also in BMNH.

pusilla Stephens (*Nemoura*), 1836 : 142. LECTOTYPE ♂. Stephens Coll. / *pusilla* / *Nemoura pusilla* Steph. ♂ Lectotype, D. E. Kimmins det. 1969.

Currently placed as synonym of *Nemoura cinerea* (Retzius).

pyrenaica Mosely (*Protonemoura*), 1930 : 250, figs 29–31. Holotype ♂. France, Basses-Pyrénées, Eaux Chaudes, 10.vii.1929 (M. E. Mosely) / *Protonemoura pyrenaica* Mosely ♂ Type.

Type mounted as preparation in canada balsam.

quadridentata Kimmins (*Protonemura*), 1950a : 205–206, fig. 12. Holotype ♀. Khasis, Nat[ive] Coll[ector] / *Protonemura quadridentata* Kim., ♀ Type, D. E. Kimmins det. 1948.

Type pinned, with abdomen mounted in canada balsam.

regalis Newman (*Pteronarcys*), 1838 : 176. Holotype ♀. [The label is much blackened, but by oblique lighting the following data can be read] *Pteronarcys* Newman, *Regalis* Newman, Ent. Mag. V. 176, Canada, *E. Newman*.

The abdomen is now missing.

renata Kimmins (*Amphinemura*), 1950a : 206-208, figs 13-16. Holotype ♂. Assam, Mishmi Hills, Minutang, 3900 ft, 17.ii.1935 (*M. Steele*) / *Amphinemura renata* Kim., ♂ Holotype.

Holotype mounted as two preparations, wings dry, remainder in canada balsam.

reticulata Kimmins (*Leptoperla*), 1951 : 57-58, figs 9a-b. Holotype ♀. [Australia], New S[outh] Wales, Mt Kosciusko, Spencers Creek, xii.1932 (*R. J. Tillyard*) / *Leptoperla reticulata* Kim., ♀ TYPE.

Mounted as three preparations, wings dry, remainder in canada balsam.

reticulata (Klapálek Mss) Tillyard (*Eustheniopsis*), 1921a : 233. Holotype ♀. Tasmania / *reticulata* Klapálek / *Eustheniopsis reticulata* Till., ♀ Holotype, D. E. Kimmins det. 1969.

[**rufescens** Stephens (*Chloroperla*), 1836 : 139. Type not recognizable from description.]

ruficosta Tillyard (*Tasmanoperla*), 1924 : 193. Holotype ♀. N[ew] S[outh] W[ales], [Mount] Kosciusko, [5500 ft], 24.xi.1921 (*R. J. Tillyard*) / *Tasmanoperla ruficosta* Till., Holotype ♀, R.J.T.

rugosa Kimmins (*Leptoperla*), 1951 : 56-57, figs 8a-e. Holotype ♂. Australia, F[ederal] C[apital] T[erritory], Lee's Springs, xi.[19]32 (*R. J. Tillyard*) / *Leptoperla rugosa* Kim., ♂ TYPE.

Mounted as one preparation, in canada balsam.

scutata Barnard (*Aphanicerella*), 1934 : 540-541, figs 16a-f. Holotype ♂. [South Africa], Wellington Mts, [Witte River], ix.1933 (*H. G. W[ood]*) / *Aphanicerella scutata* Brnd, Holotype ♂, ♀ [Barnard's writing].

Holotype ♂, paratype ♀ in 2% formaldehyde solution.

scutigera Kimmins (*Protonemura*), 1950a : 199-200, fig. 4. Holotype ♀. Assam, Mishmi Hills, Delai Valley, Chanliang, Alt. 4840 ft, 25.xi.1936 (*M. Steele*) / *Protonemura scutigera* Kim., ♀ TYPE.

Mounted as two preparations in canada balsam.

serricauda Kimmins (*Dinotoperla*), 1951 : 62-63, figs 14 a-e. Holotype ♂. Tasmania, R. Ouse, 4.ii.1933 (*R. J. Tillyard*) / *Dinotoperla serricauda* Kim., ♂ Type.

Mounted as three preparations, wings in de Faure's medium, remainder in canada balsam.

signata Walker (*Perla*), 1852 : 157. Lectotype ♀. Walker type label / Venezuela / 54. PERLA SIGNATA [label cut from Walker catalogue] / *Anacroneuria signata* Walker, Lectotype, det. Froehlich, 1968.

Currently placed in *Anacroneuria*.

sonans Newport (Barnston Mss) (*Perla*), 1851 : 447-449. Holotype ♀. 265 or 664, *Perla sonnans* / *abnormis*, Klapálek / *Perla sonans* Newport.

Perla sonans (Barnston Mss) was published in synonymy with *Perla abnormis* Newman by Newport and would not normally be available, but Ricker (1938 : 140) treats it as an available name and thus validates it (Art. 11, d, Intern. Rules, 2nd edition). He gives St Martin's Falls, Albany River, Ontario as the type-locality, but there is no such indication on the specimen. Barnston's label gives the specific name as 'sonnans', but the published name is 'sonans'.

Currently placed in *Acroneuria*, probably a synonym of *abnormis* Newman.

spectabilis Westwood (in Griffiths *et al.*) (*Eusthenia*), 1832 : 348; Newman (1839 : 33). LECTOTYPE ♀. 41.9.25.2 [New Holland, V. D. L., In exchange with Westwood] / *Eusthenia spectabilis* Westw., in Griff. An. K., N. Holl., (V.D.L.). / *Eusthenia spectabilis* Westwood, ♀ Lectotype, D. E. Kimmins det. 1969.

There is one paralectotype ♀.

The selection of a type-specimen for this species has been something of a problem, which has been made more difficult by the fact that Westwood himself did not publish a description of the species, Griffith's account being based upon notes supplied by Westwood.

The first description (1832 : 348) is very brief 'The body is dark brown, the upper wings pale, with a brown spot in each cell; the anterior margin purplish brown, and with a whitish fasciae rather beyond the centre: the hinder wings red, with a very broad bluish-black margin.'

The second description, by Newman (1839 : 33) is more detailed and agrees well with the two examples in BMNH determined by Westwood (and probably seen by Newman before they reached the BMNH). One was received from Westwood in exchange in 1841 and the other from the Entomological Club in 1844. The chief differences in the two descriptions are that Griffiths (1832) does not mention the conspicuous reddish streak along the radius in the fore wing, and the specimens do not show a pale fore wing with a brown spot in each cell. They are in fact brownish with a purple tinge, the cross-veins finely bordered with white. It is possible that Griffiths meant that the cells were almost entirely filled with brownish.

Tillyard based his interpretation of the species on these two examples, which were long ago labelled as syntypes, and I have therefore made the above lectotype selection, which is in conformity with current usage.

spio Newman (*Chloroperla*), 1839 : 86. Holotype ♂. Sierra Leone / *Chloroperla Spio* Newman, Mag. Nat. Hist. n.s. III p. 86 [with on reverse], presented by the Rev^d. D. F. Morgan.

Currently placed in the genus *Neoperla*.

subarmata Despax (ssp. of *Chloroperla grammatica*), 1924 : 354-357, pl. 8, fig. 22, text-figs 7-9. Holotype ♂ (in 2% formaldehyde solution and as microscope preparation). Angl[eterre], Capel Curig [vi.[19]19] (*M. E. Mosely*).

The locality 'Capel Curig' is in fact in the Welsh county of Caernarvonshire. Currently placed in the genus *Isoperla*.

suffusa Walker (*Perla*), 1852 : 154. LECTOTYPE ♀. Walker type label / Nepal, with on reverse 'Hardwicke Bequest' / *Perla suffusa* Walker, ♀ Lectotype, D. E. Kimmins det. 1969.

The type-series consists of two ♀ syntypes, both from Nepal. Walker's description agrees fairly well, although one venational character agrees only in one out of four fore wings. This is the number of cross-veins in the terminal areolet (space between costa and R_1 beyond the termination of Sc), which is said to be seven. The numbers are actually 4, 5, 5 and 7. I have selected as Lectotype the example which has seven cross-veins in the terminal areolet of one fore wing. The second example becomes a paralectotype.

Currently placed as the type-species of *Brahmana* Klapálek, 1916.

sulcicollis Stephens (*Nemoura*), 1836 : 143. Syntype [?sex]. Stephens Coll. / *Nemoura sulcicollis* Steph., D. E. Kimmins det. 1969.

In the Stephens Collection there is one example (now lacking abdomen) which agrees reasonably well with the original description, and although it does not carry a specific label from the Stephens Collection, I am prepared to accept it as at least one of the syntypes. Stephens' collection of Nemouridae was studied by Morton (1894 : 571) and *sulcicollis* was placed by him as a synonym of *Nemoura cinerea* Olivier, 1811. The latter is a homonym of *Nemoura cinerea* (Retzius, 1784) and Brinck (1949 : 37) has used the name *Nemoura sulcicollis* Stephens, 1836 as the first available synonym for *Nemoura cinerea* Olivier, 1811. Currently placed in the genus *Amphinemura*.

tasmanica Kimmins (*Leptoperla*), 1951 : 51-53, figs 5a-e. Holotype ♂. Tasmania, Gouldt County, 10.ii[19]33 (*R. J. Tillyard*) / *Leptoperla tasmanica* Kim., ♂ TYPE.

Holotype mounted as three preparations, two of wings (in de Faure's medium), remainder in canada balsam.

tasmanica Tillyard (*Spaniocerca*), 1924 : 195, fig. 3. Holotype ♀. Tas[mania], Mount Wellington, 31.i.[19]17 (*R. J. Tillyard*) / *Spaniocerca tasmanica* Till., Holotype ♀, R.J.T.

Holotype (seriously damaged by pests in Tillyard collection) is now represented by two anterior and one posterior wings.

tenebrosa Klapálek (*Kempnyia*), 1916 : 69-70. LECTOTYPE ♀. Theresopolis / 22.ix. [18]87 / triangle of black paper / *tenebrosa* Klapálek / *Kempnyia tenebrosa* Klap., ♀ Lectotype, D. E. Kimmins det. 1969.

One paralectotype (without abdomen). Currently placed as synonym of *Kempnyia klugi* (Pictet).

terminalis Walker (*Perla*), 1852 : 155-156. LECTOTYPE ♀. Walker type label / East Indies / India / 49. PERLA TERMINALIS. / *Perla terminalis* Walker, ♀ Lectotype, D. E. Kimmins det. 1969.

The second example is in less good condition and has been marked paralectotype ♀. Currently placed in *Marthamea* and doubtfully synonymized with *M. vitripennis* by Klapálek, 1923 : 98.

tibetana Kimmins (*Capnia*), 1947 : 734-735, figs 10A-D. Holotype ♂. Tibet, Gaotsa, 12300 ft, 21.iii.1933 (*Raymond Greene*), Mt. Everest Exped. / *Capnia tibetana* Kim., ♂ Type.

Type mounted on two microscope slides, in canada balsam.

tillyardi Kimmins (*Spaniocerca*), 1951 : 87-88, figs 37a-e. Holotype ♂. [Australia], F[ederal] C[apital] T[erritory], Lee's Springs, xi.1932 (*R. J. Tillyard*) / *Spaniocerca tillyardi* Kim., ♂ TYPE.

Mounted as three preparations, wings dry, head, mouth parts and abdomen, thorax and legs in canada balsam.

tinctipennis McLachlan (*Perla*), 1875 : 71. Holotype ♀. Type [McL. label] / Japan, Pryer / *Perla tinctipennis* McL.

Currently placed in *Paragnetina*.

tragula Kimmins (*Amphinemura*), 1950 : 189-191, figs 23-25. Holotype ♂. Turkestan / 1 / *Amphinemura tragula* Kim., ♂ TYPE.

Type cleared and mounted in canada balsam.

transmarina Newman (*Chloroperla*), 1838 : 499-500. Lectotype ♀ (Ricker, 1938 : 146, figs 32, 33). Ent. Club / Transmarina Newman, Ent. Mag. V.499, N. America, *R. Foster* / *Chloroperla transmarina* Newman, ♀ Lectotype, W. E. Ricker det. 1935-36.

The data label is now black and the data discernable only with difficulty. Ricker, in effect, selected this example by his statement 'The ♀ type, in the British Museum'. The other examples (implied in Newman's description) have probably been transferred to other species. Currently placed in the genus *Isoperla*.

transversa Klapálek (*Perlodes*), 1912 : 40. Holotype ♀. Rheinwald (*W. Bennett*) / Ent-[omological] Club / *transversa*, Klapálek. /

Synonym of *Perlodes intricata* (Pictet).

tricolor Klapálek (*Togoperla*), 1921 : 65. Holotype ♀. Kiu-Kiang / *tricolor* Klapálek / *Togoperla tricolor* Klapálek, ♀ Holotype, D. E. Kimmins det. 1969.

trijuncta Walker (*Perla*), 1852 : 153; Ricker, 1938 : 140. Holotype ♀. Walker type label / Georgia / 43. PERLA TRIJUNCTA [label cut from Walker Catalogue].

Currently placed as a synonym of *Acroneuria arenosa* Pictet.

turkestanica Kimmins (*Capnia*), 1950 : 187-189, figs 14-18. Holotype ♂. 7 / 517 / Turkestan / *Capnia turkestanica* Kim., D. E. Kimmins det. 1948.

Wings mounted dry, abdomen in canada balsam.

uncata Kimmins (*Filchneria*), 1947 : 737-739, figs 12, 13A-E. Holotype ♂. Tibet, Yatung, 10000 ft, 3.iv.1924 (*R. W. G. Hingston*) Everest Exped.

Type ♂ cleared and mounted in canada balsam, on two slides.

uniformis Kimmins (*Dinotoperla*), 1951 : 68–69, figs 19a–g. Holotype ♂. Australia, N[ew] S[outh] W[ales], Rule's Point, 4450 ft, 30.xii.[19]34 [R. J. Tillyard] / *Dinotoperla uniformis* Kim., ♂ TYPE.

Mounted as three preparations, wings in de Faure's medium, remainder in canada balsam.

varia Kimmins (*Leptoperla*), 1951 : 54–56, figs 7a–d. Holotype ♂. Tasmania, L[ake] St Clair, 6.ii.1933 (R. J. Tillyard) / *Leptoperla varia* Kim., ♂ TYPE.

Mounted as two preparations, wings in de Faure's medium, remainder in canada balsam.

variegata Stephens (*Nemoura*), 1836 : 144. Holotype ♀. Stephens Coll. / *variegatus* / *Nemoura variegata* Steph., ♀ Holotype, D. E. Kimmins det. 1969. / *Brachyptera risi* Morton, ♀, D. E. Kimmins det. 1969.

Nemoura variegata Stephens is a homonym of *Nemoura variegata* (Olivier) and takes the name of the first available synonym, *Brachyptera risi* Morton.

venosa Kimmins (*Neoperla*), 1950 : 183–184, figs 7–8. Holotype ♂. S. India, Kodaikanal, 7000 ft, 31.iii.[19]36, BM-CM Exped. to S. India, 1936 / *Neoperla venosa* Kim., det. D. E. Kimmins.

Wings mounted dry, ♂ genitalia in canada balsam.

[**venosa** Stephens (*Chloroperla*), 1836 : 139. Type not recognizable from description.]

vernalis Newport (*Capnia*), 1848 : 388; 1851 : 451; Walker, 1851 : 176; Ricker, 1938 : 135–136, figs 10–12. Lectotype ♂ (Ricker, 1938). Hudson's Bay, [Albany River, St Martin's Falls] / Originally mounted with female / *Capnia vernalis* Newp., ♂ Lectotype, W. E. Ricker, 1938.

The lectotype has wings mounted dry and abdomen in canada balsam.

xanthenes Newman (*Perla*), 1838 : 478. Lectotype ♀ (Needham & Claassen, 1925 : 194). Georgia / *Perla xanthenes* Newman ♀ Type, det. D. E. Kimmins.

Currently placed in *Acroneuria*. The ♂ of *xanthenes* Newman is placed as a synonym of *Perla kansensis* Banks.

MEGALOPTERA

affinis Stephens (*Raphidia*), 1836 : 131. LECTOTYPE ♀. Stephens Coll. / *affinis* / *Raphidia affinis* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Raphidia (Atlantoraphidia) maculicollis* Stephens. A second labelled example appears to be conspecific and has been labelled ♀ paralectotype.

albipennis Walker (*Hermes*), 1853 : 207–208; Kimmins, 1949 : 766–768, text-fig. 1. LECTOTYPE ♀. Walker type label / Nepal, [with on reverse] Hardwicke Bequest / *H. albipennis*, Nepal / *Hermes albipennis* Walker, ♀ Lectotype, D. E. Kimmins det. 1969.

This is the example referred to as '♀ holotype' in Kimmins, 1949 : 767. Currently placed in *Protohermes*.

anticus Walker (*Hermes*), 1853 : 205. Holotype ♀. Walker type label / China / *H. anticus*, China / *Hermes anticus* Walker, Holotype, D. E. Kimmins det. 1969.

Weele (1909 : 36) states that the type is a mature ♀; the abdomen is now missing. Currently placed as a synonym of *Neochauliodes sinensis* (Walker).

assamensis Kimmins (*Protohermes*), 1948 : 773–775, text-figs 11–13. Holotype ♂. Assam / *Protohermes assamensis* Kim., ♂ Type, det D. E. Kimmins.

Abdomen cleared and mounted in canada balsam.

assimilis Albarda (*Raphidia*), 1891 : 144–146, pl. 8, fig. 23. Holotype ♀. Type [McL. label] / 47 / 61 / Vancouver I[sland] (*Mathew*) / *assimilis* Alb. / H. & U. Aspöck vid. 1968.

Abdomen cleared and preserved in glycerine. Currently placed in the genus *Agulla*.

auritus Kimmins (*Platyneuromus*), 1928 : 369–370, figs 5–7. Holotype ♂. Honduras / *Platyneuromus auritus* Kimmins, ♂ Type, det. D. E. Kimmins / *Doeringia auritus* Kimmins, det. D. E. Kimmins, 1932.

australica Kimmins (*Archichauliodes*), 1954 : 424-425, fig. 6. Holotype ♂. N[ew] S[outh] W[ales], Upper Murrumbidgee R., Rule's Point, 4500 ft, 20.xii.1934 (*R. J. Tillyard*) / Abdomen in slide cabinet / *Archichauliodes australica* ♂ Kim., D. E. Kimmins det.

It may be pointed out that in the published data of the holotype, the sex is incorrectly given as ♀.

australiensis Tillyard (*Stenosialis*), 1919 : 824. Holotype ♀. Q[ueensland], Mt Tambourine, 17.xii.[19]16 (*W. H. Davis*) / *Stenosialis tambourinensis* Till., TYPE, R.J.T. / *Stenosialis australiensis* Till., ♂ TYPE, det. D. E. Kimmins.

The type is very much compressed laterally. Tillyard evidently changed his mind about the specific name, but omitted to replace the determination label. Currently placed in *Austrosialis*.

batesi McLachlan (*Cordyalis*), 1868 : 232-233, pl. 8, fig. 1. Holotype ♀. Ega (*Bates*) / *Cordyalis batesii* McL. (Type).

Generic name now spelt *Corydalus*.

bellulus Banks (*Protohermes*), 1931 : 412-413, fig. 18. LECTOTYPE ♂. B[ritish] N[orth] Borneo, Mt Kinabalu, Lumu Lumu, 5500 ft, 8.iv.1929 (*H. M. Pendlebury*) / Ex F.M.S. Museums / *Protohermes bellulus* Bks, type / *Protohermes bellulus* Banks, ♂ Lectotype, D. E. Kimmins det. 1969.

bicolor Albarda (*Raphidia*), 1891 : 152-154, pl. 9, fig. 22. LECTOTYPE ♂. Type [McL. label] / Colorado / 42 / *bicolor* Alb. / *Agulla bicolor* Alb. ♂ Type, det. D. E. Kimmins / *Raphidia bicolor* Alb., ♂ Lectotype, D. E. Kimmins det. 1969.

Apex of abdomen cleared and mounted in canada balsam. There are 3 ♂ and 6 ♀ paralectotypes in BMNH. Currently placed in *Agulla*.

biconicus Kimmins (*Protochauliodes*), 1954 : 443-444, fig. 22. Holotype ♂. [Australia], N[ew] S[outh] Wales, Nowra, 8.x.1928 (*F. A. Rodway*) / Abdomen in slide cabinet / *Protochauliodes biconicus* Kim., ♂, D. E. Kimmins det. 1953.

bowringi McLachlan (*Chauliodes*), 1867 : 260 (= *Hermes sinensis* Walker, 1852 : 203, *nec* 1852 : 199). Holotype ♀. Hongkong / *H. sinensis*, China / *Chauliodes bowringi* McL., Type, D. E. Kimmins det.

Currently placed in *Neochauliodes*.

burmana Aspöck (*Inocellia*), 1968 : 63; 1968a : 188, fig. 3. Holotype ♂. N. E. Burma, Hpungan, 17.iii.1934 (*R. Malaise*) / *Inocellia burmana* Aspöck & Aspöck, 1968, Holotypus. Abdomen cleared and preserved in glycerine. The first reference is a *nomen nudum*.

californicus Walker (*Chauliodes*), 1853 : 199. Holotype ♀. Walker type label / California [From M. Hartweg's collection] / *C. californicus*, California / Abdomen in slide cabinet / *Chauliodes californicus* Walker, ♂ Holotype, D. E. Kimmins det. 1969.

Currently placed in the genus *Neohermes*.

chilensis Kimmins (*Archichauliodes*), 1954 : 425-427, figs 7, 8. Holotype ♂. Chili (*Calvert*) / Abdomen in slide cabinet / *Archichauliodes chilensis* Kim., ♂, D. E. Kimmins det. 1953.

chilensis McLachlan (*Sialis*), 1870 : 145-146. Holotype ♂. Type [McL. label] / Chili / *Sialis chilensis* McL.

Currently placed in the genus *Protosialis*. Weele (1910 : 77), from a photograph of McLachlan's type, suggests it is a female, because the antennae did not appear to be hairy. They are in fact pilose and the type is definitely a male.

continentalis Weele (*Parachauliodes*), 1909 : 259; 1910 : 60, fig. 47, pl. 4, fig. 30; Kimmins, 1954 : 432, text-fig. 12. LECTOTYPE ♂. [Korea], Ssu-shima, 27.v.1891, H.t. / *Metachauliodes continentalis* Weele, type / *Parachauliodes continentalis* Weele, ♂ Lectotype, D. E. Kimmins det. 1969.

The generic name *Metachauliodes* is a *nomen nudum* and was evidently replaced at the last minute by Weele with *Parachauliodes*, the same name occurring twice (Weele, 1910 : 61) in error for *Parachauliodes*. There is one ♀ paralectotype in BMNH.

corripiens Walker (**Hermes**), 1860 : 180. LECTOTYPE ♀. [No locality label] / Walker type label / Saunders [Coll.] / corripiens / *Hermes corripiens* Walker, ♀ Lectotype, D. E. Kimmins det. 1969.

Walker's measurements suggest that he had more than one example; and there is a second example from Brazil, also from the Saunders collection, which may be one of the type-series. It lacks the anterior spots on pronotum, which Walker says may be obsolete. Both specimens are a little larger than the dimensions given by Walker.

costalis Walker (**Hermes**), 1853 : 207; Kimmins, 1949 : 775-778, figs 14-18. LECTOTYPE ♂. Walker type label / North China / *H. costalis*, N. China / *Hermes costalis* Walker, ♂ Lectotype, D. E. Kimmins det. 1969.

Lectotype with abdomen cleared and mounted in canada balsam. The second example has been labelled paralectotype ♀. Currently placed in the genus *Protohermes*.

crassicornis McLachlan (**Corydalid**), 1867 : 233-235, pl. 8, fig. 2. Holotype ♂. Texas / *Corydalid crassicornis* McL. (Type).

Generic name now spelt *Corydalus*.

deceptor Kimmins (**Archichauliodes**), 1954 : 423-424, fig. 5. Holotype ♂. Queensland, Toowoomba, 2000 ft, 10.xii, 1884 / Abdomen in slide cabinet *Chauliodes guttifer* McL. [McL.det.] / *Archichauliodes deceptor* Kim., ♂ D. E. Kimmins det. 1953.

decimmaculatus Walker (**Hermes**), 1860 : 180; Kimmins, 1949 : 768-770, figs 2-4. Holotype ♂. [No locality data] / Saunders [coll.] / 10-maculatus W. / *Hermes decimmaculatus* Walker, ♂ Holotype, D. E. Kimmins det. 1969.

Abdomen mounted in canada balsam.

disjunctus Walker (**Chauliodes**), 1866 : 334. Holotype ♀. Walker type label / Brit[ish] Columb[ia] / Brit[ish] Columb[ia], Chalukweyuh Lake, ix.1859 / *Chauliodes disjuncta*.

Currently placed in the genus *Dysmicohermes*.

diversus Walker (**Hermes**), 1853 : 205; Kimmins, 1938a : 354-358, pl. 13A, text-figs 1, 2, 5, 6, 9, 10 [designation of type]. Lectotype ♂ (Kimmins, 1938). Walker type label / N[ew] Zeal[and] / *Hermes diversus* Walker ♂, selected as type by D. E. Kimmins, Feb. 1938.

The type has the abdomen cleared and mounted in canada balsam. Currently placed in the genus *Archichauliodes*.

dubitatus Walker (**Hermes**), 1854 : 204; Kimmins, 1938a : 354-358, pl. 13, text-figs 3, 4, 7, 8. Holotype ♀. Walker type label / 26 / *H. dubitatus* [no locality] / Abdomen in slide cabinet / *Protochauliodes dubitatus* Walker, ♀ Type, det. D. E. Kimmins.

Locality possibly South American. Currently placed in the genus *Protochauliodes*.

esbenpeterseni Kimmins (**Leptochauliodes**), 1930 : 663-665, 2 figs. Holotype ♂. C[ape] C[olony], Hott[entots] Holl[and] Mts, 4000 ft, Caledon, 1916 ([*K. H. Barnard*] / Abdomen in slide cabinet / *Leptochauliodes esbenpeterseni* Kimmins ♂, det. D. E. Kimmins, 1930 / *Taeniochauliodes ochraceopennis* Esb.-Pet. ♂, det. D. E. Kimmins.

fasciatus Walker (**Chauliodes**), 1853 : 201. LECTOTYPE. Walker type label / 'N[ew] Holl[and]' / *C. fasciatus*, Australia / *Chauliodes fasciatus* Walker, ♂ Lectotype, D. E. Kimmins det. 1969.

Of the two original examples, the above mentioned specimen is the only one bearing locality and determination labels. There is a smaller example, without any data whatever, but I feel that it would be unwise to mark it as a paralectotype.

fenestralis McLachlan (**Neuromus**), 1869 : 42-43. LECTOTYPE ♂. Dhargeeling / *Neuromus fenestralis* McL. / *Neuromus fenestralis fenestralis* McL., ♂ Lectotype, D. E. Kimmins det. 1969.

The second ♂ syntype has been labelled paralectotype. Currently placed in the genus *Neoneuromus*.

ferrugineus Walker (**Sialis**), 1853 : 195. Holotype ♂. Walker type label / Georgia [From Mr Abbot's collection] / *S. ferrugineus* N. Amer[ica] / *Sialis ferrugineus* Walk., ♂ Holotype,

D. E. Kimmins det. 1969.

Currently placed as a synonym of *Sialis americana* (Rambur).

fletcheri Kimmins (*Neochauliodes*), 1954 : 434, fig. 13. Holotype ♂. India, Assam, Shillong, 5000 ft, 26.vi.–10.vii.1928 (*T. Bainbrigge Fletcher*) / Abdomen in slide cabinet / *Neochauliodes fletcheri* Kim., ♂, D. E. Kimmins det. 1953.

forcipatus Kimmins (*Ctenochauliodes*), 1954 : 429–430, fig. 11. Holotype ♂. China, [Szechwan?], Kwanshien, vii.1930 (*G. M. Franck*) / Abdomen in slide cabinet / *Ctenochauliodes forcipatus* Kim., ♂, D. E. Kimmins det. 1953.

fraternus McLachlan (*Chauliodes*), 1869 : 37. Holotype ♀. N. China / *Chauliodes fraternus* McL.

Currently placed as ssp. of *Neochauliodes sinensis* (Walker).

fulvostigmata Aspöck (*Inocellia*), 1968 : 63; 1968a : 184–187, figs 1–2. Holotype ♂. 11.viii. / Kashmir, Gulmarg, 11.viii.[19]31 (*T. B. Fletcher*) / *Inocellia fulvostigmata* Aspöck et Aspöck, 1968, Holotypus.

The first reference is a *nomen nudum*.

fuscinata Aspöck (*Inocellia*), 1964 : 62; 1965 : 352–353, fig. 22. Holotype ♂. Turkey, Amasya, 9.vi.1959 (*K. M. Guichard*) / *Raphidia fuscinata* H. et U. Aspöck, Holotypus ♂.

Currently placed in the subgenus *Turcoraphidia*. Abdomen of holotype cleared and preserved in glycerine.

guttiferus Walker (*Hermes*), 1853 : 204; Kimmins, 1954 : 419–421, figs 2, 3. Holotype [?sex]. Walker type label / [locality unknown] / *guttifera* / *Hermes guttifera* Walker, holotype, D. E. Kimmins det. 1969.

Currently placed in the genus *Archichauliodes*.

hageni Albarda (*Inocellia*), 1891 : 171–172, pl. 11, fig. 33. Holotype ♀. Type [McL. label] / 57 / [California], S[an] Francisco (*Edwards*) / *Hageni*, Alb.

hecate McLachlan (*Corydalis*), 1866 : 1–2, pl. 20. LECTOTYPE ♂. Brazil / *Corydalis hecate* McL., Type / *Corydalis cephalotes* Rbr [McL. writing] / *Corydalis hecate* McL., ♂ Lectotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *C. cephalotes* Rambur.

ignicolis Tillyard (*Austrosialis*), 1919 : 823. Holotype ♂. [Tasmania], Maria Isl[and], 29 xii.[19]13 / *Austrosialis ignicolis* Till. Type, R.J.T.

inamabilis McLachlan (*Corydalis*), 1867 : 235–236, pl. 8, fig. 3. Holotype ♂. Texas / *Corydalis inamabilis* McL. (Type).

Generic name currently spelt *Corydalus*.

indecisus Walker (*Hermes*), 1953 : 203–204. Holotype ♀. Walker type label / *indecisus* / *H. indecisus* / *Hermes indecisus* Walker, ♀ Holotype, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Chauliodes rastricornis* (Rambur), a North American species.

infectus McLachlan (*Neuromus*), 1869 : 41; Weele, 1910 : 37 [type restricted to BMNH example]. Lectotype ♂. [India], Dhargeling / *Neuromus infectus* McL.

Weele, 1910, restricted the type-series to the ♂ from Darjeeling, in BMNH and in effect designated it as lectotype.

infumata Newman (*Sialis*), 1838 : 500. Holotype ♀. [Locality and determination label blackened and almost illegible], *Sialis* Latr., *infumata* Newm., [North America, Trenton Falls (Doubleday)] Ent. Club / *Sialis infumata* Newm., ♀ Holotype, D. E. Kimmins det. 1969.

Left hind wing missing, part of left fore wing mounted dry, abdomen in canada balsam.

intimus McLachlan (*Neuromus*), 1869 : 44–45. LECTOTYPE ♂. Ind[ia] / Saunders [Coll.] / *intimus* McL. type [W. F. Kirby's writing] / *Neuromus intimus* McL., ♂ Lectotype, D. E. Kimmins det. 1969.

McLachlan stated that the type locality was 'India orientali', but this appears to be an

error, as the two syntypes are labelled 'Ind[ia]' and 'Saunders [Coll.]'. Weele (1910 : 29) is also wrong in stating that the 'type was labelled "East Indies"', although he correctly quotes the other syntype as 'India (Collection Saunders)'. Had he quoted the type-data correctly, I would have accepted his statement as a lectotype designation.

japonicus McLachlan (*Chauliodes*), 1867 : 232. Holotype ♀. Japan / *Chauliodes japonicus* McL. (Type).

Currently placed in *Parachauliodes*.

kimminsi Aspöck (*Raphidia*), 1964 : 62; 1965 : 315-317, fig. 2. Holotype ♂. Turkey, Amasya, 1400 ft, 9.vi.1959 (*K. M. Guichard*) / *Raphidia kimminsi* H. & U. Aspöck, 1964, Holotypus ♂.

koreanus Weele (*Neochauliodes*), 1909 : 261; Kimmins, 1954 : 437-438, fig. 16 [Lectotype designation, as 'holotype']. Lectotype ♂. Korea, Seoul, viii (*E. Scarlett*) / *Neochauliodes koreanus* Weele, type / Abdomen in slide cabinet / *Neochauliodes koreanus* Weele, ♂ Lectotype, D. E. Kimmins det. 1969.

I regard my designation of '♂ holotype' as equivalent to lectotype.

latratus McLachlan (*Neuromus*), 1869 : 43-44. Holotype ♂. E[ast] Ind[ies] / *latratus*, McL. type [W. F. Kirby's writing].

Although labelled 'East Indies', our museum register states that most of this collection was from India. Currently placed in *Neoneuromus*.

londinensis Stephens (*Raphidia*), 1836 : 130. LECTOTYPE ♀. Stephens Coll. / *Raphidia londinensis* Steph., Lectotype ♀, D. E. Kimmins det. 1969.

Currently placed as a synonym of *Raphidia (Raphidilla) xanthostigma* Schummel.

longicornis Albarda (*Inocellia*), 1891 : 169-170, pl. 11, fig. 32. Holotype ♂. Type [McL. label] / 58 / California (*Walsingham*) / *Longicornis* Alb. / *Inocellia longicornis* Alb., ♂ Type, D. E. Kimmins det. 1969.

maclachlani Albarda (*Inocellia*), 1891 : 162-164, pl. 10, fig. 29. LECTOTYPE ♂. [Corsica], Porto Vecchio / 100 / *Inocellia maclachlani* Alb., det. H. Albarda / *Inocellia maclachlani* Alb., ♂ Lectotype, D. E. Kimmins det. 1969.

Abdomen of lectotype cleared and preserved in glycerine. There are 1 ♂, 2 ♀ paralectotypes in BMNH, the females being from Sardinia. Currently placed in the genus *Fibla*.

maculicollis Stephens (*Raphidia*), 1836 : 131. LECTOTYPE ♀. Stephens Coll. / *maculicollis* / *Raphidia maculicollis* Steph., ♀ Lectotype, D. E. Kimmins det. 1969.

There is a second example ♀, also labelled *maculicollis*. Currently placed as *Raphidia (Atlantoraphidia) maculicollis* Stephens.

maculifera Walker (*Hermes*), 1853 : 203. Holotype ♀. Walker type label / Malabar, [with on reverse] 'Ent. Club' / *H. maculifera*, Malabar / *Hermes maculifera* Walker, ♀ Holotype, D. E. Kimmins det. 1969.

maculipennis Gray (*Hermes*), in Griffiths *et al.*, 1832 : 331. Holotype ♂. *H. maculipennis* (*ruficollis* Ramb.), Java.

According to the BMNH Register, this specimen was purchased in 1840, at Mr Children's sale.

megacephala Stephens (*Raphidia*), 1836 : 130. LECTOTYPE ♀. Stephens Coll. / *megacephala* / *Raphidia megacephala* Stephens, ♀ Lectotype, D. E. Kimmins det. 1969.

The head and prothorax of this example had become detached and wrongly gummed on to the metathorax of a specimen labelled 'Londinensis', with which it was an obvious misfit. Currently placed as a synonym of *Raphidia (Navasana) notata* Fabricius. A second example, labelled 'megacephala', is *R. cognata*.

montanus McLachlan (*Neuromus*), 1869 : 42; Kimmins, 1949 : 780-781, fig. 23. Holotype ♀. Sikkim, Lacken, 9000 ft, / N. Ind[ia] / *Neuromus montanus* McL.

The type has badly battered wings; abdomen cleared and mounted in canada balsam.

nigricollis Albarda (*Raphidia*), 1891 : 142-144, pl. 8, fig. 22. LECTOTYPE ♂. Frankf[urt] a[m] M[ain] / 58 / *Raphidia nigricollis* Alb., det. H. Albarda / *Raphidia nigricollis* Albarda, ♂ Lectotype, D. E. Kimmins det. 1969.

In addition, there are 2 ♂ and 3 ♀ paralectotypes in BMNH. Currently placed in *Raphidia* (*Venustoraphidia*).

obscurus Weele (*Neochauliodes*), 1909 : 262-263. Holotype ♀. Pres[ented] by Dr Watts, Manipur / *Neochauliodes obscurus* Weele, 1908, type.

occidentalis Weele (ssp. *Neochauliodes sinensis*), 1909 : 266; Kimmins, 1954 : 438-439, figs 17a-c [Lectotype designation (as 'holotype)]. Lectotype ♂. [W. China], Omei-Shan / *Neochauliodes sinensis* Wlk., *occidentalis* Weele Type / Abdomen in slide cabinet / *Neochauliodes sinensis occidentalis* Weele, ♂ Lectotype, D. E. Kimmins det. 1969.

I consider that my designation of a '♂ holotype' in 1954 as equivalent to lectotype.

orientalis McLachlan (*Corydalis*), 1899 : 281-283, pl. 9. Holotype ♂. W. China, Chia-ting-fu, [1000 ft, May] / *Corydalis orientalis* McL., Type. /

Currently placed in *Acanthacorydalis*.

plomleyi Kimmins (*Archichauliodes*), 1954 : 422-423, fig. 4. Holotype ♂. [Australia, New South Wales], Mt Irvine, [2300 ft], 25.xii.1934 (*N. J. Plomley*) / Abdomen in slide cabinet / *Archichauliodes plomleyi* Kim., D. E. Kimmins det. 1953.

One pair of wings mounted dry, abdomen in canada balsam.

pontica Albarda (*Raphidia*), 1891 : 102-104, pl. 4, fig. 6. LECTOTYPE ♂. 41 / [Asia Minor, Siwas], Amasia / *Raphidia pontica* Alb. / *Raphidia pontica* ♂ Lectotype, D. E. Kimmins det. 1969.

♂ abdomen cleared and preserved in glycerine. Currently placed in the genus *Agulla*. The ♀ paralectotype lacks head and pronotum. Albarda also lists an example without abdomen in the Berlin Museum and two females in Geneva.

pusillus McLachlan (*Chauliodes*), 1867 : 231-232. Holotype ♂. [locality unknown to McLachlan, S. Africa]. *Chauliodes pusillus* McL. (Type).

Currently placed in *Platychnauliodes*.

reedi Kimmins (*Protochauliodes*), 1954 : 440-443, figs 20, 21. Holotype ♂. Chili (*Reed*) / Abdomen in slide cabinet / *Protochauliodes reedi* Kim., ♂, D. E. Kimmins det. 1953.

One pair of wings mounted dry, abdomen in canada balsam.

[**selysi** Weele (*Hermes*), 1909 : 256; 1910 : 89.

The BMNH has one example (lacking abdomen), which is labelled 'Type' by Weele, but in 1910 : 89 he indicates (by an asterisk in the specific list) that the 'type' [strictly lectotype] is in the Selys Collection. This is the damaged ♂ from Sylhet. Our example is therefore a paralectotype.]

sibirica McLachlan (*Sialis*), 1872 : 55-56, pl. 1, figs 10, 10a. LECTOTYPE ♂. Type [McL. label] / Sibér[ie] Orient. (*Maack*) / *Sialis sibirica* McL. / *Sialis sibirica* McL., ♂ Lectotype, D. E. Kimmins det. 1969.

There are two ♂ and three ♀ paralectotypes.

simplex Walker (*Chauliodes*), 1853 : 200. LECTOTYPE ♂. Walker type label / Silhet [Mr Argent's collection] / *simplex* / *Chauliodes simplex* Walker, ♂ Lectotype, D. E. Kimmins det. 1969.

One of the two paralectotypes, which carries Weele's determination label, was the specimen figured by him in 1909 and by Kimmins, 1954 : 433, figs 13a-c.

sinensis Walker (*Chauliodes*), 1853 : 199. LECTOTYPE ♂. North China / C. Sinensis, China / Abdomen in slide cabinet / *Chauliodes sinensis* Walker, ♂ Lectotype, D. E. Kimmins det. 1969.

The second example, from China, has not been traced in BMNH.

sinensis Walker (*Hermes*), 1853 : 203. See *bowringi* McLachlan (*Chauliodes*).

subfasciatus Westwood (*Chauliodes*), 1848 : 70, pl. 34, fig. 5. LECTOTYPE ♂. Sylhet / Saunders [Coll.] / *Chauliodes subfasciatus*, West. Cab. or. Ent., pl. 34, fig. 5 / *Chauliodes subfasciatus* Westwood, ♂ Lectotype, D. E. Kimmins det. 1969.

Both the lectotype and paralectotype males lack abdomens. Currently placed in *Neochauliodes*.

subnubilus Kimmins (*Protohermes*), 1949 : 770-771, figs 5-7. Holotype ♂. Birmah, Ruby Mines / *Protohermes subnubilus* Kim., ♂ TYPE, det. D. E. Kimmins.

Apex of abdomen mounted in canada balsam.

tenuis McLachlan (*Chauliodes*), 1869 : 38. Holotype ♂. S[outh] Afr[ica], Knysna, / *C. tenuis* type [W. F. Kirby's writing] / *Chauliodes tenuis* McL., S. Afr.

The holotype now lacks the right fore wing and the left hind wing. Currently placed in *Platycauliodes*.

tonkinicus Kimmins (*Anachauliodes*), 1954 : 428-429, figs 9, 10. Holotype ♂. Tonkin, Ngai-Tio, 22.iv.1924 (*H. Stevens*) / Abdomen in slide cabinet / *Anachauliodes tonkinicus* Kim., ♂, D. E. Kimmins det. 1953.

One pair of wings mounted dry, abdomen of holotype ♂ in canada balsam.

truncatus Kimmins (ssp. of *Neochauliodes sinensis*), 1954 : 440, fig. 19. Holotype ♂. [Assam], Khasis, Shillong, 5000 ft, 15.vi.1928 (*T. Bainbrigge Fletcher*) / Abdomen in slide cabinet / *Neochauliodes sinensis truncatus* ♂ Kim., D. E. Kimmins det. 1953.

umbratus Kimmins (*Neochauliodes*), 1954 : 436, fig. 15. Holotype ♂. Indo-China (*A. Vuillet*) / Abdomen in slide cabinet / *Neochauliodes umbratus* Kim., ♂, D. E. Kimmins det. 1953.

uniformis Banks (*Protohermes*), 1931 : 412, figs 19, 20. Holotype ♂. B[ritish] N[orth] Borneo, Mt Kinabalu, Lumu Lumu, 5500 ft, 9.iv.1929 (*H. M. Pendlebury*) / Ex F.M.S. Museums / *Protohermes uniformis* Bks, type.

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